

10-06-00

A

Please type a plus sign (+) inside this box → ☐PTO/SB/05 (4/98)
Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.	KLOSS 001A
First Inventor or Application Identifier	Ronald J. Kloss
Title	TIMELINE PUBLISHING SYSTEM
Express Mail Label No.	EL661569021US

APPLICATION ELEMENTS
See MPEP chapter 600 concerning utility patent application contents.**ADDRESS TO:** Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages **13**]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **6**]
4. Oath or Declaration [Total Pages **2**]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. ☐ * Small Entity Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. ☐ Other: _____

*** NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

- 16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:**
-
- ☐
- Continuation
- ☐
- Divisional
- ☐
- Continuation-in-part (CIP) of prior application No: _____
-
- Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**17. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label**007663**

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

Name

Stetina Brunda Garred & Brucker

Address

24221 Calle de la Louisa, 4th Floor

City

Laguna Hills

State

CA

Zip Code

92653

Country

USA

Telephone

(949) 855-1246

Fax

(949) 855-6371

Name (Print/Type)

K. Stetina

Registration No. (Attorney/Agent)

29,445

Signature

Date

10/4/00

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$)**355.00**

Complete if Known

Application Number **unknown**
Filing Date **herewith**
First Named Inventor **Ronald J. Kloss**
Examiner Name
Group Art Unit
Attorney Docket No. **KLOSS_001A**

JP0225 U.S. PTO
09/06/00
10/05/00

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number
Deposit Account Name **19-4330**

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☒ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	355
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$)**355**

2. EXTRA CLAIM FEES

Total Claims **16** -20** = **0** X **0** = **0**
Independent Claims **2** -3** = **0** X **0** = **0**
Multiple Dependent **0** = **0**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)**0**

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for <i>ex parte</i> reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Petitions related to provisional applications	
126 240	126 240	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)**0**

SUBMITTED BY

Name (Print/Type)	Kit M. Stetina	Registration No. (Attorney/Agent)	29,445	Telephone	(949) 855-1246
Signature	<i>[Signature]</i>	Date	10/04/00		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Case No.: KLOSS-001A

TITLE OF THE INVENTION

5 TIMELINE PUBLISHING SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable

10 STATEMENT RE: FEDERALLY SPONSORED RESEARCH/DEVELOPMENT
(Not Applicable)

BACKGROUND OF THE INVENTION

15 The present invention generally relates to a software system for creating timelines and more particularly to a software system operative to create timelines that may be displayed on a computer and are interactive.

Computers are capable of displaying multimedia presentations to users. The presentations may include images, text, audio, and/or video. In this respect, the computer is operative to present a multimedia experience on the computer's display to the user.

20 Often times, a user will wish to create his or her own multimedia presentation. Presentation software has been developed to allow a user to create multimedia presentations with a computer. The presentation software allows the user to create a presentation having pictures, graphics, text and audio that will be displayed by the computer. In this respect, the presentation software allows users to create content rich presentations very quickly and easily. Typically, the presentation software is non-interactive such that the information must be presented in a predetermined order. Accordingly, the viewer has no control over the order and type of information that is to be presented. Recently, web authoring software has become available for creating web pages. However, such software does not allow the user to easily create interactive presentations showing temporal relationships between events.

25 Digital scrapbook software allows a user to store pictures, portions of pictures and images on his or her computer and retrieve the same. However, digital scrapbook software does not provide a system or means for easily displaying such images in a temporal sequence, or linking such photographs to other images.

30

Project management software creates charts regarding the timing of events for planning a task (i.e., a construction or product development or project). In this respect, the

35

0050015-100500

project management software creates a horizontal timeline which displays timing information. Charting software similarly creates a graphic representation of time for planning tasks and events. However, neither of these types of software packages allows the user to create an interactive graphical display which can show temporal relationships and information quickly and easily.

A timeline is typically used to display a series of dates of events that have occurred. Typically, the timeline is a horizontal line depicting the occurrence of time over a prescribed period (i.e., years, days, hours, etc...) Vertical hash marks are placed on the horizontal timeline to indicate the date an event has occurred. Usually, the date of the event, as well as a short description of the event, is placed next to the corresponding vertical hash mark. In this manner, the date and type of event may be presented to viewers.

If a computer user wishes to create a timeline on a computer, the user must use existing software packages (i.e., presentation software) adapted to create multimedia presentations. Specifically, the prior art systems are capable of creating content rich presentations but not in the form of a timeline. Accordingly, a user may have to adapt the prior art software system to create content rich timelines that are displayable on the computer.

The present invention addresses the above-mentioned deficiencies of the prior art systems by providing a software publishing system that specifically creates content rich timelines. The present invention is capable of creating a timeline which can present video, audio and images to a user. Specifically, the present invention provides a timeline publishing software system whereby a user can create content rich presentations which are linked to the timeline created by the user. In this respect, the timeline publishing system of the present invention creates timelines that can be used by individuals and businesses. Additionally, the timeline publishing system of the present invention creates timelines that can be explored interactively depending on the viewers' interest and in any order, which is unlike presentation software which creates a predetermined linear presentation.

BRIEF SUMMARY OF THE INVENTION

In accordance with the present invention there is provided a method of forming an interactive timeline using a computer. The method comprises entering a starting date for an event into the computer. Next, an ending date for the event is entered into the computer. A time box is created by the computer corresponding to a period of time between the starting date and the ending date. Finally, the time box is linked to an event page wherein the event page comprises information that occurred during the period of time between the starting date

and the ending date for the event.

In the preferred embodiment, the time box, as well as the event page, are presented on a display of the computer. Typically, the time box will be labeled on the display of the computer with the name of the event that the time box is linked therewith. The time box may be displayed vertically on the display of the computer in order to facilitate viewing and scrolling thereof. Multiple time boxes will be displayed vertically on the screen of the computer in order to form a timeline. In this respect, a series of time boxes will be a timeline which the user can view. Disposed within each time box may be a miniature photograph depicting the event of the time box. The miniature photograph is imported from a data file created for this purpose.

The event page is created using the timeline publishing software system of the present invention. The event page comprises images, text, and/or audio corresponding to the event. Typically, the event page is created prior to linking the time box therewith.

In the preferred embodiment of the present invention, multiple time boxes may be created and linked to respective event pages. In this respect, the timeline publishing software system of the present invention is adapted to create a time box for each event entered by the user. Each of the time boxes is then linked to a respective one of the event pages. Accordingly, the event page linked to a corresponding time box will comprise only information regarding the event specific to the time box. A miniature photograph depicting the event may be placed within each of the time boxes.

Alternatively, a single time box may be created to correspond to multiple events. Accordingly, the time box will correspond to multiple events that occurred during the period of time between a starting date for the first event and an ending date for the last event. The event page may comprise information corresponding to the multiple events that occurred during the period of time between the starting date of the first event and the ending date of the last event.

In accordance with the present invention there is provided a timeline publishing software system for a computer. The timeline publishing software system comprises a date entry section operative to receive a starting date and a finishing date for an event. Additionally, the timeline publishing software system includes a time box creating section which is operative to create a time box that is displayable on the computer. The time box corresponds to the period of time between the starting date and the ending date for the event. A linking section is operative to link the time box to an event page. The event page comprises information corresponding to the event which occurred between the starting date and the finishing date of the time box created with the date entry section. In this respect, the

timeline publishing software system is operative to create a timeline comprising multiple time boxes displayed vertically on the computer screen. The user can interact with the time boxes of the timeline in order to receive information regarding the events occurring during the period of time depicted on the timeline.

5 The timeline publishing software system of the present invention may further include an event page creation section which is operative to create the event page prior to linking the time box therewith. The event page creation section creates a display presentable on the display of the computer which presents content-rich information to the user corresponding to the event. In the preferred embodiment of the present invention, the data entry section
10 may be operative to receive a respective starting and finishing date for multiple events. The time box creating section would be operative to create multiple time boxes corresponding to respective ones of the multiple events. Additionally, the linking section would be operative to link respective ones of the time boxes to a respective event page comprising information corresponding only to that event. Furthermore, the timeline publishing software
15 system of the present invention may further include a labeling section which is operative to label the time box prior to linking the same to the event page.

BRIEF DESCRIPTION OF THE DRAWINGS

20 These as well as other features of the present invention will become more apparent upon reference to the drawings wherein:

Figure 1 is a flow chart depicting the series of events used to create a timeline in accordance with the present invention;

Figure 2 is a block level diagram showing system sections of the timeline publishing software system of the present invention;

25 Figure 3 is a representation of a screen shot presented on a display of a computer and showing a timeline created in accordance with the present invention;

Figure 4 is a screen shot depicting an event page created in accordance with the present invention;

Figure 5 is a screen shot depicting a time box entry screen; and

30 Figure 6 is a screen shot depicting a calendar page created in accordance with the present invention.

DETAILED DESCRIPTION OF THE INVENTION

35 Referring now to the drawings wherein the showings are for purposes of illustrating a preferred embodiment of the present invention only and not for purposes of limiting the

same, Figure 1 is a flow chart depicting the series of events necessary to create an interactive timeline 10 shown in Figure 3. Specifically, the timeline 10, is presented upon a computer display 11 and is interactive with a user. Referring to Figure 3, the timeline 10 comprises a series of time boxes 12 located vertically on the display 11 of the computer. Each of the time boxes 12 is disposed beneath a respective label 14 which corresponds to a category chosen by the creator of the timeline 10, as will be further explained below. Each of the time boxes 12 begin at a different period of time and the length of each time box 12 may correspond to a prescribed period of time selected by the creator. By way of example only and not limitation, a time box 12 may begin in the year 1965 and extend until the year 1985. In this respect, the time box 12 will correspond to events (i.e., important corporate events) that have occurred within that period of time. Disposed within each time box 12 may be a photograph, portion of a photograph or graphic image which depicts the events of each time box 12. The photograph, portion of a photograph or graphic image is imported into the timeline 10, as will be explained below.

As previously mentioned, each of the time boxes 12 is displayed in a vertical orientation, as seen in Figure 3. The vertical orientation of each time box 12 allows the timeline 10 to be scrolled upwardly or downwardly on the display 11 of the computer with scroll bar 200. This is especially useful if the timeline 10 is incorporated into a web page because users are accustomed to scrolling vertically. Accordingly, a series of vertically oriented time boxes 12 create a period of time corresponding from a first time box 12 to a last time box 12. The series of time boxes 12 create and define a vertical timeline, as will be recognized by those of ordinary skill in the art.

As previously mentioned, each of the time boxes 12 is located under a label 14 corresponding to a prescribed category. For instance, if the timeline 10 is a corporate history, then each of the labels 14 may be associated with certain events occurring during the life of the corporation. Examples of such categories are financial, marketing, partners, facilities, etc. The categories may be selected by the creator of the timeline 10 in order to emphasize specific events that have occurred during the period of time that the timeline 10 depicts. As seen in Figure 3, each of the labels 14 is placed vertically above a corresponding series of time boxes 12.

Referring to Figure 4, an event page 16 is linked to each of the time boxes 12 and may be presented on computer display 11. In this respect, if a viewer of the timeline 10 selects a time box 12 with a computer pointing device (i.e., mouse), the event page 16 corresponding to the time box 12 will be displayed. The event page 16 comprises information regarding the events taking place during the period of time depicted by the

corresponding time box 12. The event page 16 may contain content rich information such as images 100, graphics 102, text 104, video and/or audio. Accordingly, a viewer of the event page 16 may easily understand the information presented. As will be recognized, the event page 16 may be created such that the size of the event page 16 exceeds the size of the display 11 of the computer. Accordingly, the event page 16 may be viewed using scroll bar 200 to move the event page 16 on the display 11 of the computer. The scroll bar may be vertical and/or horizontal depending upon the content of the event page 16. Furthermore, the event page 16 may include navigation button 106 which allow the user to access previous and subsequent pages and return to the timeline page 10.

As previously mentioned, the event page 16 may include images that can be viewed. Each of the images may be linked to a second event page which contains further information regarding the image being viewed. If a viewer using the timeline 10 selects an image of the event page 16 with the pointing device of the computer, the second event page will then be displayed. Similarly, an image on the first event page 16 may be linked to an audio clip which may be played if selected by the user of the timeline 10. It will be recognized that each of the images on the event page 16 may be linked to another timeline 10 which describes in more detail the events depicted by the image displayed on the event page 16. Therefore, the timeline 10 created in accordance with the present invention, may be interactive with the viewer because the viewer may select different images and/or time boxes 12 in order to access different events of the timeline 10.

Referring to Figure 1, the timeline 10 is created by the timeline publishing software system 22 shown in Figure 2. In Figure 5, the timeline 10 is created by first entering a starting date and finishing date for an event into a time box entry display 40 of data entry section 24 of the software system 22. The time box entry display 40 is presented on the display 11 of the computer. The time box entry display 40 allows the user to enter critical information about each time box 12. Accordingly, as seen in Figure 5, the time box entry display 40 includes a section whereby the user can enter the category name 42, the segment name 44, start date 46 and end date 48. The category name 42 is the same as the label 14 which is associated with certain events occurring during the history of a corporation. The segment name 44 corresponds to the name that the creator of the timeline 10 gives to each time box 12. In this respect, the segment name 44 may describe the events occurring during the period of time that each time box 12 corresponds to. The start date 46 corresponds to the beginning of the event to be depicted by the time box 12. Correspondingly, the end date 48 corresponds to the ending of the event depicted by the time box 12.

The data entry section 24, shown in Figure 2, is the interface between the creator of

the timeline 10 and the computer upon which the timeline publishing software system 22 is installed upon. As such, the data entry section 24 may be used for other types of data entry into the timeline publishing software system 22. For example, the time box entry display 40 may further include milestone entry 50 and milestone name 52. The milestone entry 50 allows the creator of timeline 10 to flag certain time boxes 12 that have important information. The creator of the timeline 10 will enter the date of the milestone in milestone entry 50, as well as enter the name (i.e., event) of the milestone in milestone name 52. The timeline publishing software 22 will then show that a milestone occurred on the timeline 10 by displaying the milestone indicator 50 at the corresponding date. The milestone name 52 will be used to describe the milestone such that when the viewer of timeline 10 passes his or her mouse over the milestone indicator 54, the milestone name 52 will pop-up on the display 11 at the correct position on the timeline 10.

The time box entry display 40 further includes a draw segment box 56 and a fill color box 58. The creator of the timeline 10 will select the draw segment box 56 when he/she wishes a time box 12 to be drawn on the timeline 10 corresponding to the starting date and entry date that he or she has already entered. The fill color box 58 allows the creator of the timeline 10 to choose the color of each time box 12 using a pop-up palette of colors in order to make a more pleasing display and to further differentiate adjacent time boxes 12. The time box entry display 40 further includes a "use name as label" box 60 which allows the creator of the timeline 10 to use the segment name 44 as a pop-up label for the corresponding time box 12. Specifically, as the viewer of the timeline 10 places his or her mouse over a time box 12, if the "use name as label" box 60 is selected, then the segment name 44 will pop up on the display 11 thereby describing the corresponding time box 12. In addition to the foregoing, the time box entry display 40 will further include a notes section 62 that allows the creator of the timeline 10 to enter information regarding the time box 12. The notes section 62 may be used as notes on the corresponding event page 16 for the time box 12 created with the time box entry display 40. The time box entry display 40 includes an import photo box 220 for including a photo, a portion of a photo, or a graphic image in the time box 12. By checking the import photo box 220 the user will be able to preview photographs to choose.

Once the starting date and finishing date have been entered into the data entry section 24 with time box entry display 40, the timeline publishing software system 22 will create a corresponding time box 12, as previously described above. Specifically, the timeline publishing software system 22 includes a time box creating section 26 which creates the graphic time box 12 on the timeline 10. As previously mentioned, the time box 12 includes

photos, portions of photos, and/or graphic images which visually depict the events of the timeline 10. Additionally, the timeline publishing software system 22 comprises a labeling section 28 used to create the respective label 14 for the time box 12 from the label 14 entered by category name 42. The labeling section 28 is in communication with the data entry section 24 and the time box creating section 26 in order to place the correct time box 12 underneath a corresponding label 14. The time box creating section 26 will place the time box 12 on the timeline 10 in the correct chronological location, as well as position the correct label 14 thereabove.

As previously mentioned, the time box 12 of the timeline 10 may be linked to a respective event page 16. The event page 16 is created with an event page creation section 30 of the timeline publishing software system 22. Typically the event page 16 is created by importing text, graphics, images, video, and/or audio into the software system 22. The timeline publishing software system 22 creates an event page 16 that includes content rich material such as graphics, images, text, and/or audio and video. The timeline publishing software system 22 may include templates which aid in the creation of the event page 16. The event page creation section 30 may include pre-designed event pages 16 which the user can import graphics, images, video, and/or audio into the desired format such that the event page 16 will have a professional look and feel. Furthermore, the event page creation section 30 may include pre-designed transition effects which the user may select. In this respect, the event page creation section 30 provides an interface for the user to create the event page 16 quickly and easily.

The event page creation section 30 is in communication with a linking section 32. As will be recognized, both the linking section 32, as well as the event page creation section 30, are implemented by the software of the timeline publishing software system 22. The linking section 32 links the time box 12 created with the time box creating section 26 with a corresponding event page 16 created by the event page creation section 30. The linking section 32 provides a connection or link between the time box 12 and a corresponding event page 16. As previously mentioned, a viewer of the interactive timeline 10 selects the time box 12 with the pointing device of the computer such that the event page 16 will be displayed. The linking section 32 provides the necessary connection or link between the time box 12 and the event page 16. It will be recognized that the linking section 32 can also be used to link the event page 16 to other event pages. In this respect, a viewer of an event page 16 can access other event pages by selecting items on the screen of the displayed event page 16. The viewer can therefore access multiple event pages 16 in an infinite variety of combinations.

Once the time box 12 is linked to a respective event page 16, the timeline 10 may be presented on the display 11 of the computer. It will be recognized that the timeline 10 may comprise multiple time boxes 12 linked to corresponding, multiple event pages 16. In this respect, a user will enter a starting date and a finishing date for each event that he or she wishes to create a time box 12. Additionally, the user will then create corresponding event pages 16 for each time box 12. Alternatively, it will be recognized that the user may create a time box 12 that corresponds to multiple events. In this respect, the user will first enter a starting date for a first event and a finishing date for the last event. The user will then create multiple event pages 16 that correspond to the events that happened during the period of time between the starting date and the finishing date. The event pages 16 will be created with the event page creation section 30, as previously described.

In addition to linking a time box 12 to an event page 16, the linking section 32 can also be used to link the time box 12 to a calendar page 70. Referring to Figure 6, the calendar page 70 may illustrate the series of events which occurred over a prescribed period of time. The prescribed period of time will correspond to the length of the associated time box 12. In this respect, the start date 46 and end date 48 entered in the time box entry display 40 will determine the length of time that is displayed on the calendar page 70. The calendar page 70 will include a calendar 72 having individual days 74. The number of days 74 will correspond to the length of time between the start 46 and end date 48. The creator of the calendar page 70 will be able to import text, audio, images, video, and graphics, into each individual day 74. The information placed in each day 74 will correspond to an event that occurred on that day. Accordingly, a scrap book of images is created whereby the image shows what event occurred on the corresponding day 74. The viewer of the calendar page 70 may use his/her pointing device to click on and select an individual day 74 having an image thereon. In this respect, when the individual day 74 is selected then either a blow-up of the image may be presented on the display 11 of the computer or an event page 16 linked to the respective day 74 will be presented. The creator of the calendar page 70 can decide what type of information will be presented when the viewer of the calendar page 70 selects a respective one of the days 74.

Often times, the user will wish to edit the timeline 10. In this respect, the timeline publishing software 22 will be configured for on-screen editing by the user. The user will be able to select time boxes 12 with his or her mouse in order to change the content thereof. Any changes made to a time box 12 on the timeline 10 will be correspondingly changed in the database of information. Therefore, the timeline publishing software 22 will allow the user to edit the timeline 10 quickly and easily. It will be recognized by those of ordinary skill

in the art, that it is also possible for the user to edit an event page 16 in the same manner. Alternatively, the timeline 10 and the event page 16 may include pull down menus (not shown) which allow the creator of the timeline 10 and event page 16 to select predetermined options as well as the usual tools common to graphics creation software for the editing and creating of the timeline 10 and event page 16.

It will be recognized that the timeline 10 creates a graphical representation of events which can be easily understood. In this respect, relationships between events can be revealed which were not apparent. Accordingly, the timeline 10 and timeline publishing software 22 may be used for multiple applications. For instance, the timeline 10 may depict the series of events in a sporting event such as a baseball game. The timeline 10 could be innings of the game. Alternatively, the segments of timeline 10 may show the teams and games for the baseball playoffs which would be a day-by-day re-cap of each game. The timeline 10 and timeline publishing software 22 could be used in the medical field to show the relationships between diseases to aid in diagnosis and treatment of patients. The legal community could use the timeline publishing software 22 to create jury presentations. Accordingly, the timeline publishing software 22 can create visual presentations of timelines 10 which can be used in education including biographies and historical events.

Additional modifications and improvements of the present invention may also be apparent to those of ordinary skill in the art. Thus, the particular combination of parts described and illustrated herein is intended to represent only a certain embodiment of the present invention, and is not intended to serve as a limitation of alternative devices within the spirit and scope of the invention.

CLAIMS:

1. A method of forming an interactive timeline with a computer, the method comprising the steps of:

- a) entering a starting date for an event into the computer;
- 5 b) entering an ending date for the event into the computer;
- c) creating a time box with the computer, the time box corresponding to a period of time between the starting date and the ending date; and
- d) linking the time box to an event page wherein the event page comprises information that occurred during the period of time between the starting
- 10 date and the ending date for the event.

2. The method of Claim 1 wherein step (c) further comprises labeling the time box.

3. The method of Claim 1 wherein step (c) further includes importing a photograph into the time box.

15 4. The method of Claim 1 wherein step (d) comprises creating the event page on the computer prior to linking the time box therewith.

5. The method of Claim 1 wherein step (c) comprises creating a time box that is displayed vertically on a screen of the computer.

20 6. The method of Claim 1 further comprising:

- (e) repeating steps (a) - (c) in order to create multiple time boxes for the interactive timeline; and
- (f) linking respective time boxes to respective ones of the event pages containing information about respective events.

25 7. The method of Claim 1 wherein step (d) comprises linking the time box to multiple event pages.

8. The method of Claim 1 wherein:

- the event comprises multiple events having a first event and a last event;
- step (a) comprises entering a starting date of the first event;
- step (b) comprises entering an ending date for the last event;
- 30 step (c) comprises creating a time box corresponding to a duration of time between the starting date of the first event and the ending date of the last event; and
- step (d) comprises linking the time box to an event page wherein the event page comprises information corresponding to the multiple events that occurred during the period of time between the starting date of the first event and the ending
- 35 date of the last event.

9. The method of Claim 8 wherein step (d) comprises creating the event page prior to linking the time box thereto.

10. The method of Claim 8 further comprising:

(e) repeating steps (a)-(c) in order to create multiple time boxes for the interactive timeline; and

(f) linking respective time boxes to respective ones of the event pages containing information about the events.

11. The method of Claim 8 wherein step (d) comprises linking the time box to multiple event pages.

12. A timeline software publishing system for a computer comprising:

a data entry section operative to receive a starting date and a finishing date for an event from the user;

a time box creating section operative to create a time box displayable on the computer, the time box corresponding to a period of time between the starting date and the ending date; and

a linking section operative to link the time box to an event page, the event page comprising information corresponding to the event.

13. The timeline publishing system of Claim 12 further comprising an event page creation section operative to create the event page prior to linking the time box to the event page.

14. The timeline publishing system of Claim 12 wherein:

the data entry section is operative to receive a respective starting date and a respective finishing date for multiple events;

the time box creating section is operative to create multiple time boxes corresponding to respective ones of the multiple events; and

the linking section is operative to link respective one of the time boxes to a respective event page comprising information corresponding to the event.

15. The timeline publishing system of Claim 12 further comprising a labeling section operative to create a label for the time box.

16. The timeline publishing system of Claim 12 wherein the time box creating section is operative to create a time box that is displayed vertically on a screen of the computer.

ABSTRACT OF THE DISCLOSURE

The present invention generally relates to a software system for publishing graphical items and more particularly to a software system operative to create timelines that may be displayed on a computer. The software system includes a data entry section operative to receive a starting date and a finishing date for an event from the user of the system. In communication with the data entry section is a time box creating section operative to create a time box displayable on the computer. The time box created by the software system corresponds to the period of time between the starting date and the ending date entered by the user with the data entry section and may include a photo and/or image depicting the event. Finally, the software system further includes a linking section operative to link the time box to an event page. The event page comprises information corresponding to the event having the starting date and finishing date entered by the user into the data entry section. Accordingly, the timeline publishing software system of the present invention is operative to create an interactive timeline displayable upon a computer.

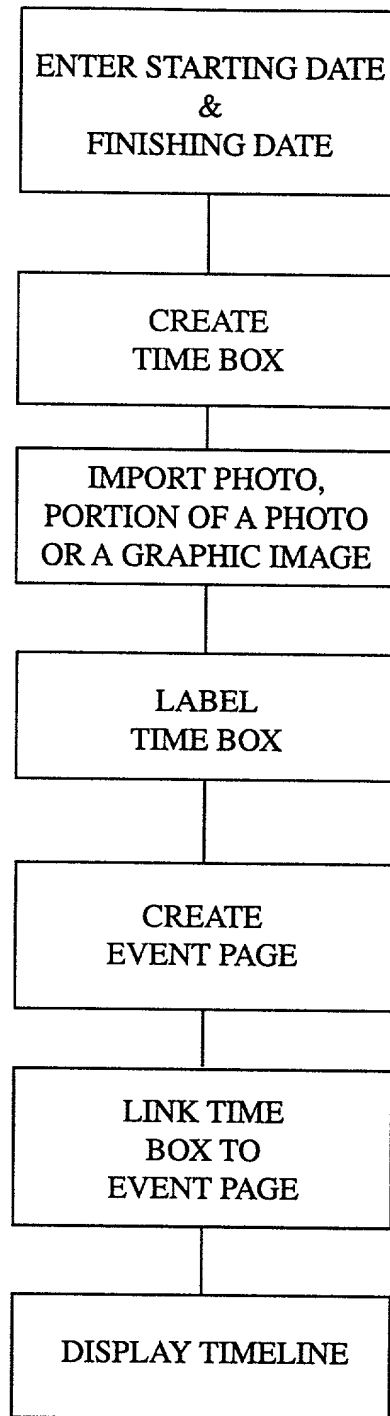


Fig. 1

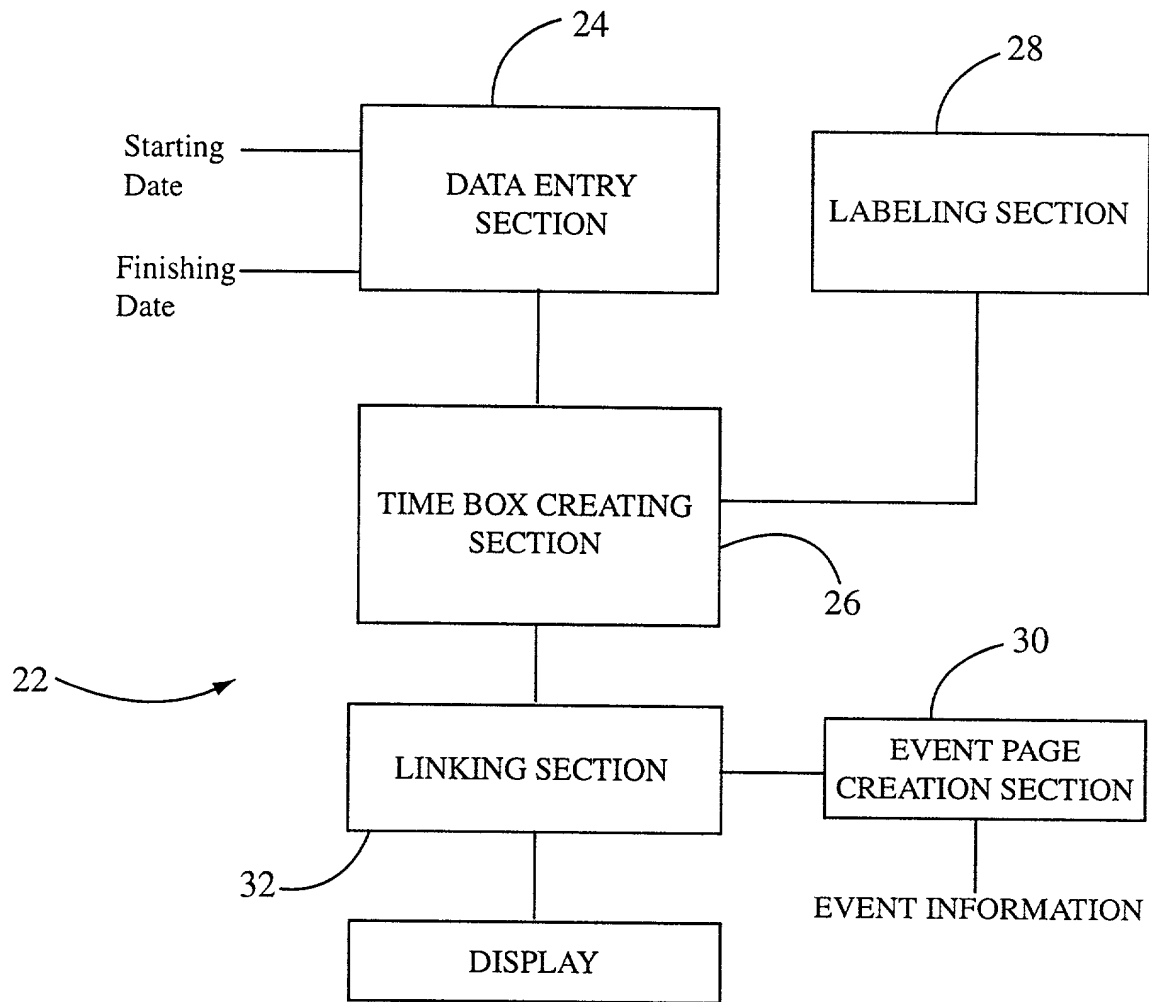


Fig. 2

09680015.100500

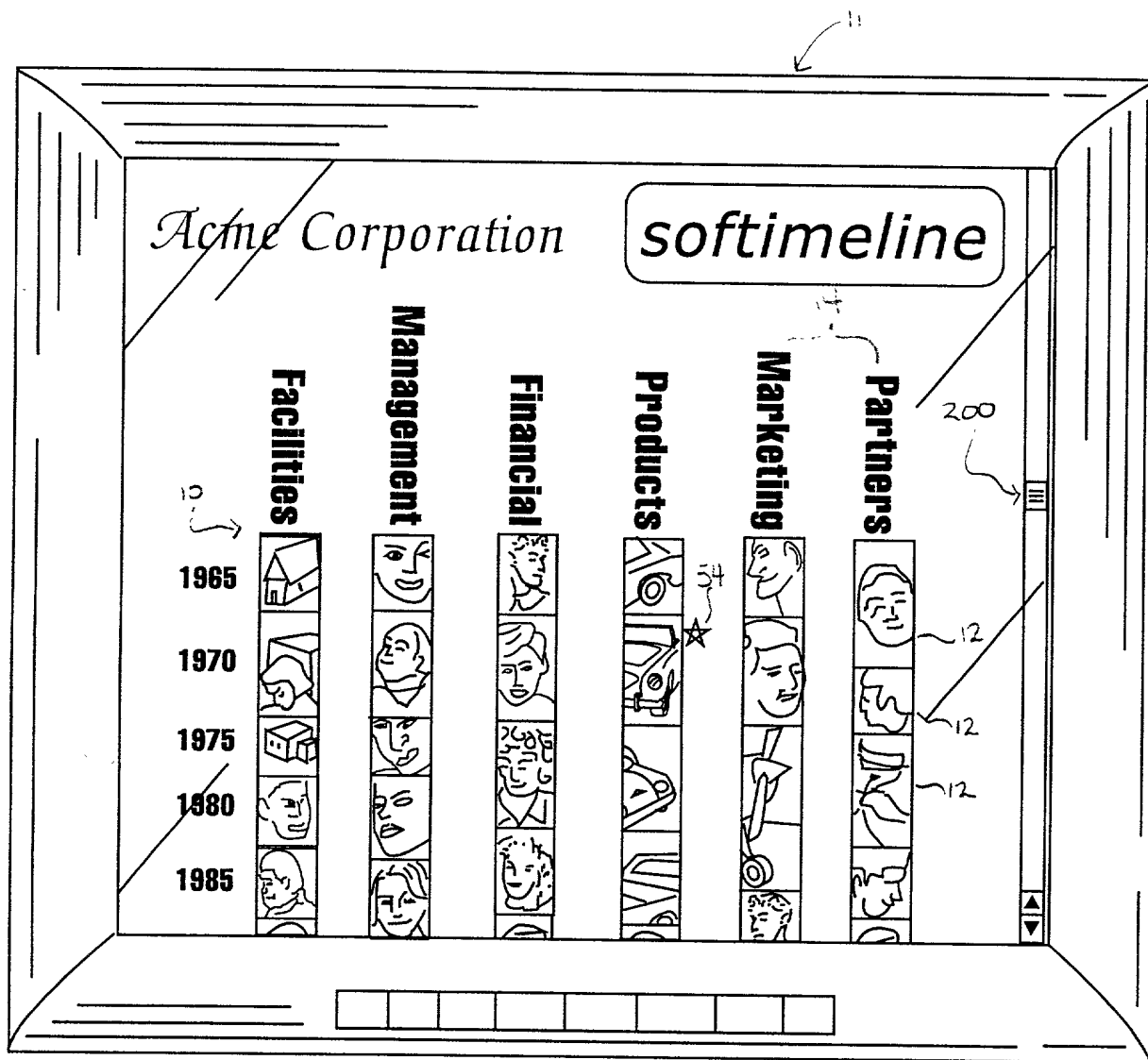


Fig. 3

005007" 51008950

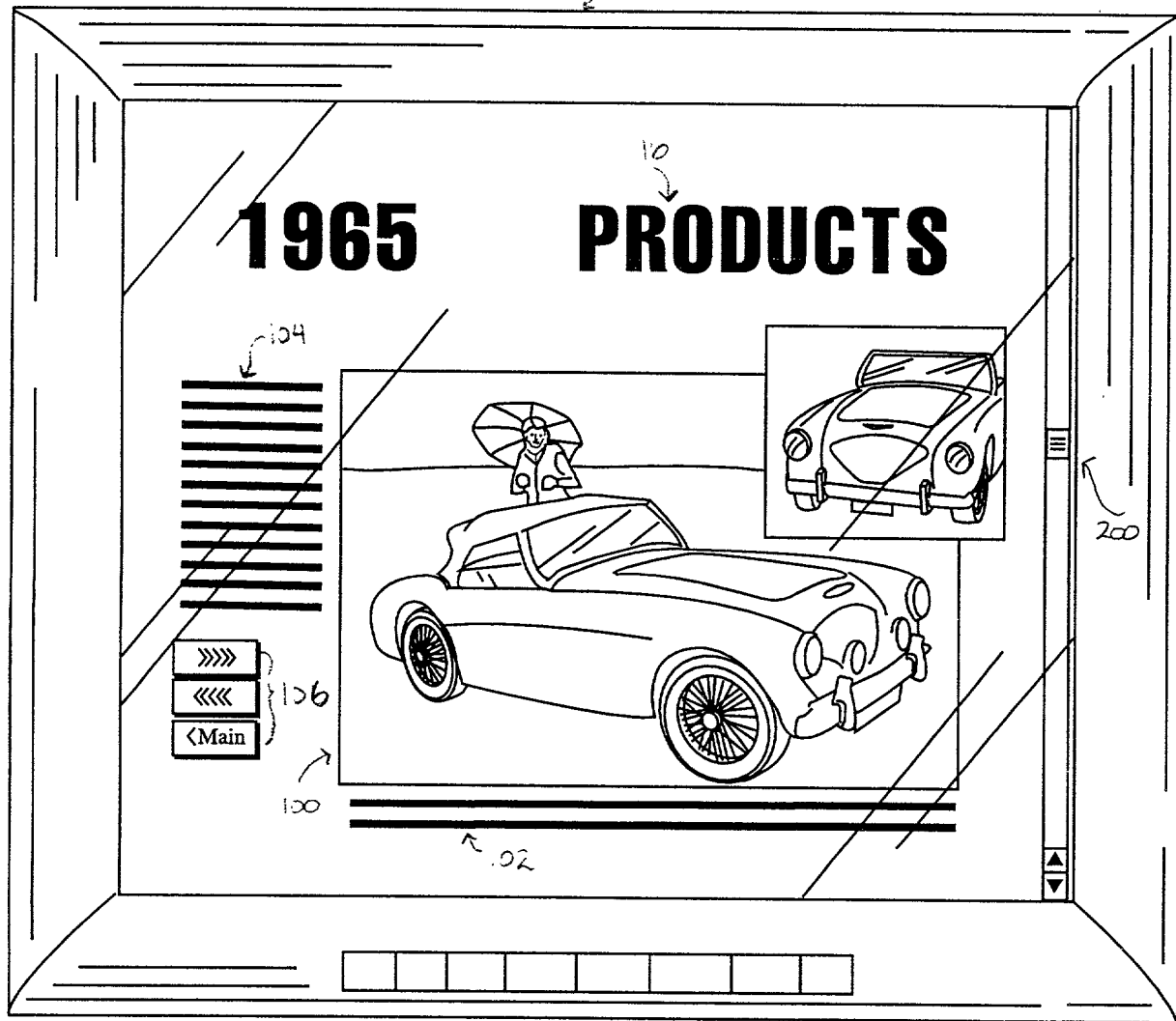


Fig. 4

40

11

Time Box Entry

Category **Products** 42

Segment Name **Model Z-108** 44

Start Date **1/1/85** 46

End date **6/15/71** 48

★ Milestone **8/1/89** 50

Milestone Name **Series 2** 52

Draw Segment ☐ 54 Import Photo ☐ 56

Fill Color ☐ 58

Use Name As Label ☐ 60

Notes: 62

220

Fig. 5

The diagram illustrates a computer terminal screen with the following elements:

- Title:** "Marketing: Cross-Country Introduction, July, 1965" (labeled 11).
- Calendar:** A calendar for July 1965, showing days from Sunday to Saturday. The calendar is divided into a grid of 31 days. Days 1-21 are empty. Days 22-31 contain illustrations of various activities (e.g., a person at a desk, a person at a computer, a person at a phone, a person at a typewriter, a person at a desk with a box, a person at a desk with a box, a person at a desk with a box, a person at a desk with a box).
- Navigation:**
 - A bracket labeled 74 spans the first three rows of the calendar (days 1-14).
 - A bracket labeled 72 spans the last three rows of the calendar (days 22-31).
 - A bracket labeled 100 points to a set of three buttons on the left side of the screen:
 - >>>>
 - <<<<
 - <Main
- Bottom Section:**
 - A bracket labeled 74 spans the first three rows of the calendar (days 1-14).
 - The text "August 1971" is displayed in the center (labeled 70).
 - A bracket labeled 200 points to a set of three buttons on the right side of the screen:
 - >
 - <
 - <<<

Fig. 6

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

+

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	KLOSS-001A
	First Named Inventor	Ronald J. Kloss
	COMPLETE IF KNOWN	
	Application Number	/unknown
	Filing Date	herewith
	Group Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing	OR	<input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TIMELINE PUBLISHING SYSTEM

the specification of which

(Title of the Invention)

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

005001 5T003950

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)
Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent
Number

Parent Filing Date
(MM/DD/YYYY)

Parent Patent Number
(if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number 007663

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name

Registration
Number

Name

Registration
Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number
or Bar Code Label

OR ☒ Correspondence address below

Name Kit M. Stetina

Address STETINA BRUNDA GARRED & BRUCKER

Address 24221 Calle De La Louisa 4th Floor

City Laguna Hills

State CA

ZIP

92653

Country Orange

Telephone

(949)855-1246

Fax

(949)855-6371

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Family Name or Surname

Ronald J.

Kloss

Inventor's
Signature

x 

Date

9/15/00

Residence: City

Lake Forest

State

CA

Country

U.S.A.

Citizenship

U.S.A.

Post Office Address

Ronald J. Kloss

Post Office Address

25002 Ravenswood

City

Lake
Forest

State

CA

ZIP

92630

Country

U.S.A.

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto